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Aaron, S. F.—

Insect Parasites of Insects. (*Scientific American*, 184, Sept. 1925.)

What are the sounds that insects hear? (*Scientific American*, 390-1, June, 1925.)

Abbot, C. E.—Associative Memory in the Larvae of *Anax junius*. (*Ann. Ent. Soc. America*, XVIII, 533-536, Dec. 1925.)

Achard, J.—Catalogue des Scaphidiidae de la Faune palearectique. (*Bull. Soc. Ent. Belg.*, VI, 143-145, Jan. 1925.) [Key to genera, pp. 141-146.]

Adkin, Robert.—Dispersal of butterflies and other insects. (*Nature*; CXVI, 467, Sept. 1925.)

Adler, S., & Theodor, O.—

A Sporozoon of *Phlebotomus papatasi*. (*Ann. Trop. Med. & Parasit.*, XIX, 309-313, Sept. 1925.)

The experimental Transmission of Cutaneous Leishmaniasis to Man from *Phlebotomus papatasi*. (*Ann. Trop. Med. & Parasit.*, XIX, 365-371, Sept. 1925.)

Alberts, H. W., and Flint, W. P.—The effect upon the vitality of seed corn of temperature that will kill seed infesting insects. (*Jl. Eco. Ent.*, XVIII, 771-776, Dec. 1925.)

Aldrich, J. M.—

A New Tachinid Parasite of a Coconut Moth in South Asia. (Diptera.) (*Proc. Ent. Soc. Wash.*, XXVII, 13, Jan. 1925.) [*Ptycho-myia remota*, n. sp., bred from the caterpillar of *Ariona catoxantha*, Hampson, attacking coconuts in the Federated Malay States.]

Aldrich, J. M.—*contd.*

Two New Species of the Tachinid genus *Lixophaga* with notes and key (Diptera). (*Proc. Ent. Soc. Wash.*, XXVII, 132-136, June 1925.)

Alexander, W. B.—Natural Enemies of Prickly Pear and their Introduction into Australia (*Bull. No. 29, Inst. of Sc. & Industry, Australia. 1925.*)

Alfken, J. D.—Zwei neue indische *Protopis*-Arten und über die 3 grossen indischen *Xylocopa* spp. (Apid). (*Ent. Mitteilungen*, XIV, 371-76, Oct. 1925.) [*X. latipes* Drury and *X. tenuiscaja*, Westw. pp. 373-375, descriptive notes.]

Ali, S.—Citrus-psylla and how to control it? (*Punjab Agric. Dept. Seasonal Notes*, II, 30-31, Mar. 1925.)

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A Revision of the Oriental Species of the Genus *Tachys*. (*Annali Museo Civico Storia Naturale*, LI, 327-498, tt. 3-4, 1923-25.) [General pp. 327-36; Keys pp. 336-337, 338, 340-43, 368-69, 374-75, 382, 387, 395, 400-08, 461, 463, 470-72, 485, 494; *Tachys luxus*, n. sp., Burma: Carin Ascuii Checu, p. 339-340; *T. triangularis* Nietn incertus, n. var., Ceylon, p. 352; *T. opalescens*, n. sp., Ceylon, Negombo, pp. 352-53; *T. vilis*, n. sp., Kashmir, pp. 354-55; *T. sciriceus*, n. sp., Burma, Borneo, pp. 362-63; *T. cardoni*, n. sp., Chota-Nagpur, pp. 364-65; *T. ochrias*, n. sp., Eastern Duars, Kumaon, Mussoorie, Dehra Dun, pp. 376-77; *T. brachys*, n. sp., Kumaon, Madras, Bengal, Malay States, pp. 377-78; *decolor*, n. var., Ceylon, p. 378; *T. bombycinus*, n. sp., Kumaon, Dehra Dun, Eastern Duars, Sikkim, pp. 385-86; *T. rhombophorus*, n. sp., *evanidus*, n. var. Eastern Duars, Sikkim, Kumaon, pp. 390-92; *T. dulcis*, n. sp., United Provinces, Bareilly, pp. 395-96; *T. castaneus*, n. sp., Sikkim, Kumaon, pp. 396-97; *T. aratus*, n. nom. (*T. sulcatus*, Metch. ncc. Putz), from Kumaon

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Papers on Oriental Carabidæ, XV. (*Ann. Mag. Nat. Hist.* XI, 306-13, Feb. 1925.) [Nebrini: *Nebria elegans*, n. sp., United Provinces, Kumaon, West Almora Division, Sunderdhunga, 8,000-12,000 ft.; *N. pindarica*, n. sp., United Provinces, Pindar Valley, 8,000-11,000 ft.; *N. cameroni*, n. sp., United Provinces, Mussoorie, Dehra Dun, Siwalik Hills, West Almora, *N. aborana* n. sp., Assam, Naga Hills, 4,000 ft. Banks of Dihong River, Janakmukh, 600 ft.: *N. cinclella*, n. sp., United Provinces, Dehra Dun, Mothronwala: *Leistus nivium*, n. sp., Kashmir, Dusu.]

Notes on Oriental Carabidæ. (*Ent. Mo. Mag.*, LXI, pp. 49-58, March 1925) [Genus *Asaphidion*; Key to spp., p. 50; *A. championi*, Andr., redesc., India: Kumaon, Spiti, Sikkim, Assam-Bhutan frontier, p. 52; *A. obscurum*, n. sp., Garhwal: Dudhatoli, pp. 52-53; *A. cuprascens*, n. sp., Kumaon, Haridwari Division

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Andrews, H. W.—Flies and Disease. (*Proc. S. London Ent. and Nat. Hist. Soc.*, 1924-25, 45-62, London, 1925).

Anonymous—

Report of the Administration of the Dept. of Agric., U. P., for the year ending 30th June 1925, pp. 30-32, 1925. [An account of work done at Cawnpore on *Platyedra gossypiella*.]

Report of the Operations of the Dept. of Agric. Madras, 1924-25. (Supdt., Govt. Press, Madras, 1925). [Entomology, pp. 22-23, 49.]

Annual Report of the Dept. of Agric. Bengal for the year 1923-24 (published 1925). [Entomology, Appendix I, IV-V; Sericulture, pp. 18-19.]

Report on the working of the Dept. of Agric. of the Central Provinces for the year 1924-25. [Entomology, pp. 19-20.]

Report on the operations of the Dept. of Agric. Burma, for the year ending 30th June 1925. Entomology, p. 17, Sericulture 18.]

A New Process of Preventing the Ravages of the clothes Moth (Lepid. Tineidae). (*The Entomologist*, LVIII, 61-62, March 1925.) [Incorporation of Eulan into woolen textiles and other fabrics giving permanent protection against moth damage.]

Protecting wood against Termites. (*Indian Scientific Agriculturist*, 66-67, Feb. 1925.)

Catalogue of Scientific Papers, 1881-1900. Compiled by the Royal Society of London, Vol. XIX, T-Z.

Insect-Pests and Useful Insects. (*Review of Agricultural Operations in India*, 59, 1925.)

The Insect Menace. (*Indian Med. Gaz.*, LX, 276-282, June 1925.) [Discussion on the subject by T. Bainbrigge Fletcher, pp. 276-277; S. K. Sen, pp. 277-279; Lt.-Col. S. R. Christophers, pp. 279-280; E. A. Andrews, pp. 280-281; J. T. Edwards, p. 281; A. Howard, pp. 281-282.]

Zoological Record, LX, 1923; LXI, 1924.

Repertoire des genres nouveaux et des espèces nouvelles. (*Ann. de Parasitologie*, IV, 106-110, Jan. 1926.) [New species of parasitic insect described during 1925, 109-110.]

Anonymous—contd.

Proceedings of the Eleventh Meeting of the Anti-Malarial Advisory Commission, May 1925.

A New Cotton Pest. (*Syngus rugifrons*, Balg.) (*Ent. Notes Series* No. 11, *Dept. Agric. Union of S. Africa*, Jan. 1925, and *J. Dept. Agric. Union of South Africa*, X, 11, Jan. 1925.) [Known for several years as an occasional pest of cotton in South and East Africa, has caused serious damage.]

Insect Powder Plant (*Pyrethrum cinerurifolium*. (*Jl. Dept. Agric. Union, S. Africa*, X, 338, April, 1925.)

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Mosaic Disease. (*Journ Jamaica Agric. Soc.* XXIX, 81, Kingston, February 1925.)

The Coffee Borer. (*Planters' Chronicle*, XX, 857-860, Nov. 1925.) [Resume of information.]

Stephanodores. (*The Planters' Chronicle*; XX, pp. 509-510, July 1925.) [Ravages of *Stephanodores coffea* in Brazil.]

Insects in Stored Grain. (*Science*, LXII, No. 1608, suppl. p. xii, Oct. 1925.)

Learning to Use Our Wings. (*Scientific American*, 273, Oct. 1925.) [In *Slipstream* is described the part played by airplane and dirigible against "Gypsy Moth."]

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A few new species of Melolonthine Coleoptera. (*Linn. Mag. Nat. Hist.*, XVI, 209-221. Aug. 1925.) (*Megistophylla dolichocera*, n. sp., Burma; Pakakko Hills, 6,500 ft., p. 216; *M. pentaphylla*, n. sp., Burma, S. Shan States; Loimwe, 5600 ft., p. 217.)

The Fauna of British India, *Coleoptera, Erotylidae, Languriidae* and *Endomychidae*, 416 pp., 76 fig., t. 1, March 1925. [Many n. spp.]

Austin, G. D.—Some Beetle Pests of Caurbits in Ceylon. (*Year Book Dept. Agric. Ceylon*, 41-47, 2 pls., 1925.)

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Back, E. A., and Cotton, R. T.—A newly recommended fumigant, ethyl acetate in combination with carbon tetrachloride. (*Jl. Econ. Ent.* XVIII, 302-308, April 1925.)

Use of Vacuum for Insect Control. (*Jl. Agric. Res.*, XXXI, 1035-1041, Dec. 1925.)

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Nomenclatorial Notes on the Jassoidea. (*Philipp. Jl. Sci.*, XXVII, iii, 159-160, May; iv, 537, Aug. 1925.)

Remarks on certain Indo-Malayan Fulgora, with special reference to Philippine species. (*Philipp. Jl. Sci.*, XVII, 343-64, tt. 1-10, Nov. 1925.) [Keys spp. 318-50, 356, 357, 359, 361.]

Baker, G. T. Bethune.—

A Revision of the Liphyrinae together with a description of the puparium of *Liphya brassolis* and of the pupae of *Aslanga vininga*, and *A. lamboni*. (Lepidoptera). (*Trans. Ent. Soc. Lond.*, 1924, 199-238, tt. 13-37, Feb. 1925.)

On the Scent-sacks in the genus *Rhodogastria* (Aetiniæ). (*Trans. Ent. Soc. Lond.*, 1925, 321-328, pls. 37-42.)

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Insect Pest and Cotton Development. (*The Empire Cotton Growing Review*, II, 323-329, Oct. 1925.)

Some Relationships of Crop Plants to Insect Pests (*The Planters' Chronicle*, XIX, 826-830, Dec. 1921.)

Ballard, E.—

Damage done to Cotton Seed by Plant Bugs. (*Queensland Agric. Jl.*, XXIV, pt. 2, 203-206, 3 pls., Aug. 1925.)

Fourth Entomological Progress Report (Australia). (*The Empire Cotton Growing Review*, II, 341-347, Oct. 1925.)

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On some Indian Brenthidæ (Coleoptera). Part II, Note on the Biology of the Brenthidæ. (*Indian Forest Records*, XI, 171-188, t. 3, 1925.) [Bionomics, food plants, etc., of spp.; list of trees with associated spp. of Brenthidæ].
The Teak Canker-grub (*Dihammus crivinus*). (*Ind. Forester* LI, 187-192, 1 pl. May 1925.)
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- Bell, T. R.**—The Common Butterflies of the Plains of India. Parts—*Hesperiidæ*, *Ismenainæ* and *Platinglinæ*, *Pamphilinæ*, XXXIII, XXXIV, XXXV. (*Jl. Bom. N. H. Soc.*, XXX; 285-305, 561-586, 822-837; Jan., June, Dec. 1925.) [Descriptions of various stages, and habits.]
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- Berlese, A.**—Gli insetti, II, Fasc. 42-61, p. 849 to end of Vol. II, 1925.

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On Predicting the Development Cycles of Insects. 1. *Ceratitis capitata*, Wied. (*Bull. Soc. R. Ent. Egypte*, 1924, 149-157, Cairo, 1925.)
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- III. Die Gattungen *Bradymerus*, *Chatopsia*, *Danodcma*, und *Dicaeosis*. (XXVI, 535-576, t. 1, April 1925.) [Genus *Bradymerus* Perroud, desc. 536, Key to Indian Spp. 537-541. *B. æratus*, n. sp., Ceylon, 543-545. *B. scirricollis* (Walker) desc. 548-549, Ceylon, Weligama, Negombo. *B. acutangulus*, n. sp., Java; West Java; Kina Odera, Malabar-Gebirge, 558-559, t. 1. fig. 2. *B. clathratus* Schaufuss, Ober-Assam, Andamanen, Sumatra, Java, Borneo, Formosa, Philippinen, Süd Celebes, 563. Catalogue of spp. 566-567. Genus *Chatopsia*, n. 567, *C. angusticollis*, n. sp., Sumatra, Java, 568-569. *Danodcma*, n. g. 570, *D. rubicolum*, n. sp., t. 1, fig. 5. Süd-Indien, Trichinopoly, 571. *Dicaeosis* Gebien, desc. 573-574.]
- IV. Die Gattungen *Phlæopsidius*, *Dysantes*, *Basanus*, und *Diaperis*. (XXVII, 131-156, t. 1, May, 1925.) [Dysantiniæ, subfam. new: *Phlæopsidius*, n. g. type *Endophlæus flexuosus* Solander, 131-132. Diaperiniæ: general; key to genera, 142-143. *Basanus* Lacordaire, key spp. 144-145. *Diaperis* Linn. key to spp. 155.]

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- V. Die Gattung *Cenopria*. (XXVII, 257-288, t. 1, June, 1925.)
[Key to spp. 259-261. *C. decolorata*, n. sp., 265-266. *C. induta* var. *purpurina*, n. var., Sudindien, Himalaya, Assam etc., 277. *C. scripes*, n. sp., Tenasserim, 284-286.]
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- VII. Die Gattung *Platydcma* Castelnau und Brulle. (XXVII, 539-593, t. 1, Aug. 1925.) [Key to groups, 540. Key to Asiatic spp. 540-545, and 545-547. *P. ferrugineum* (Motschulsky) desc., Burma, 547-549. *P. pallidicollis* Lewis, Bengalen; Hinterindien; Cochlin China, Formosa, Japan, Java, Philippin, Insel Dammer, Surigao, Luzon, 551-555, t. 1, fig. 1. *P. subfascia* (Walker) desc., India, Japan, China. Sumatara, Java, Borneo, etc., 563-565. *P. pictipenne*, n. sp., S. Indien, 567-569, t. 1, fig. 12. *P. chalcum*, n. sp., Malabar Gebirge, Java, 572-573. *P. tricusps* Motschulsky, Indien, Burma, Summatra, Java, Borneo, Neu-Guinea, Australien etc., 578-580. *P. deterum* (Walker) desc., Ceylon, Burma, Annam, Formosa, Sumatara, Siboga, Java, Borneo, Philippinen, Neu-Guinea, Neu-Sud Wales, Queensland, etc., etc. 583-585. *P. velutinum* Walker, Ceylon, Negombo, Puttalam, Nalanda, Anardadhapura, 586-588.]
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acrisolium; *P. scutellaris*, sp. n., United Provinces: Riverian Forest, Nagsidh, Dehra Dun, bred from *Eugenia jambolana*; Lachiwala Range, Dehra Dun, bred from *Acacia pennata*; Bombay: Nasik, bred from *Cassia amiculata*.]

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[Glyphipterogidæ: *Imma didicata*, n. sp., p. 133, Bombay;

Phalonidæ: *Phalonia thermoconis*, n. sp., p. 139, Kashmir:

Srinagar. 5,200 ft.; Kumaon, Muktesar. 7,000 ft.; Eucosmidæ:

Aeroclitia paulina, n. sp., p. 140, Kumaon, Muktesar, 7,000 ft.;

Eucosma hypsidryas, n. sp., pp. 140-1, India: U. P. Deoban,

Chakrata Div., 9,000 ft. (bred from larvae in buds of *Picea morinda*.);

Eucosma phoenocrossa, n. sp., p. 141-2. South India, Travancore

(bred from *Careya arborea*.); *Eucosma dryocarpa*, n. sp., p. 142,

India, U. P. Mussonie, 6,000 ft., Dehra Dun, (bred from *Quercus*

dilatata.); *Aggyroploce niphodelta*, n. sp., pp. 143-144, Assam.

Shillong, 5,000 ft.; *Laspeyresia amphilecta*, n. sp., p. 145, Bihar

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Pusa; Blastobasidæ: *Blastobasis ochromorpha*, n. sp., 145, India: U. P., Dehra Dun (bred from seeds of *Shorea robusta*); *Xylcorytidæ*: *Acolanthes ampelunga*, n. sp., p. 146, Kumaon, Muktesai, 7,000 ft.; *Plochorystis involata*, n. sp., p. 152, Bomlay, Karwar.] Wegener's Hypothesis and the Distribution of Micro-lepidoptera. (*Nature*, CXV, 831-835, May 1925.)

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Ochs, G.—*contd.*

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BISCHOFF; DIXEY (*Oatopsilia crocale*); PRUTHI (Starvation Traumatismes).

BIONOMICS.

BEESON (Brentidæ); BISCHOFF (*Lipneura*, sp. Dip.); BURKILL (Insect vision and flower fertilization); CAMERON (Mango mite); CHRISTOPHERS AND OTHERS (*Phlebotomus argentipes*); CLEVELAND (Termites, feeding habits of castes, etc.); EBNER (Orthoptera); EWING (Gyrinidæ); FRIEDERICH (*Stephanoderes hampei*); FROST (Leaf mining Coleoptera); FULLER (Egg laying of grain weevil); GENIEYS (*Habrobracon brevicornis*); GEORGE (Root sucking aphids); HASE (*Trichogramma evanescens*); HINGSTON (*Sphex lobatus*); HOWARD (Feeding of parasitic Hymenoptera); INNS (*Mucidus scatophagioides*, predaceous larva); ISAAC (Tabinidæ, Thorevidæ); LARSON AND FISHER (*Bruchus quadrimaculatus*); LÉCAILLON (*Colaspidea atrum*); MARTINI (Bionomics and temperature data); MEYER (*Empia examinator*); PAILLOT (*Neurolema nemoralis*); PURI (Simuliidæ); RAMACHANDRA RAO (*Atherigona*); RUDOLFS (House mosquitoes); SURCOUR AND GUYON (Oestrides); TWIN (Pieris host selection habit); WILKINSON (Life history, cotton bollworm); WITHEYCOMB (Neuroptera).

Hibernation.

FINK (*Leptinotarsa*); MCGREOR (Mosquito under winter conditions); MARSHOUX (*Anopheles maculipennis*); MISSIROLI (Malpighian tubules in hibernating *Anopheles*)

MISCELLANEOUS.**Tropism.**

BUNKER *ETC* (Mosquito repellents); BUXTON *ETC*. (Attraction of mosquitoes to hay infusions); KO (Colour preference of mosquitoes),

Instinct and intelligence.

BABY (Hym.); TWINN (Host selection in *Pieris*); VERLAINE (Hym.).

Dispersal and migration, etc.

ADKIN (Dispersal of Butterflies and other insects), FELT (Air currents and dispersal), FLETCHER (Migration and pest outbreak); HAYWARD (Migration of butterflies). KENNEDY (Distribution of insects of reversed behaviour); MERRICK (Wogen's hypothesis and distribution of Microlepidoptera); MORSHEAD.

Ecology.

COOK (Climatic conditions and distribution); DODDS (Aquatic insects); VISHER; (Tropical cyclones factors in ecology). [See also under Environmental and Dispersal and Migration.]

Evolution and phylogeny.

CRAIGTON (Diptera); JEFFREY (Polyploidy and origin of species); VERITY (Evolution of *Zygane*).

Variation.

GLASGOW (4 ocelli in *Melanophus*); KNIGHT (Colour patterns in Heteroptera and temperature and humidity); RILEY (Seasonal variation in butterflies); SINTON (Abnormality in appendages of *Phlebotomus*); WILLIAMS (Prothetelous larva of Coleoptera).

Mutation.

BREITENBECKER (Apterous *Bruchus*); TURNER (*Psychoda alternata*).

Mimicry and protective resemblance.

ESAKI; MORTENSEN; POULTON.

Regeneration.

GADEAU DE KERVILLE (Antenna).

Nest.

CHOPRA (*Vespa cincla*).

Termite life.

CLEVELAND (Feeding habits and intestinal flagellates); SNYDER (Origin of castes)

Bee life.

LENEBURG (Communication by scent).

II. SYSTEMATIC.

[Classifications, keys, descriptions of new genera and new species, catalogues etc.]

Anoplura.

PERKINS (*Acanthophthirius etheldredæ*, n. g, n. sp., on bat).

Aphaniptera.

DALLA TORRE (Catalogue); JORDAN (n. spp.); ROUBAUD (n. spp.); SINTON (Identification).

Coleoptera.

AONARD (Scaphidiidae: Catalogue); ANDREWS, H. E. (Tachys: n. spp. Carabidae: n. spp.); ARROW (Melolonthidae: n. spp. Fauna Vol. Languriidae and Endomychidae); BANNISTER (Carabidae); BLAIR (Mesopotamia); CAMERON, M. (Staphylinidae: Catalogue); CHAMPION (Anisotomidae, Phalacridae); DESBORDS (Hesperiidae: n. spp.); D'ORCHYMONT (Hydrophilidae, n. spp.); EIDAM (Carabidae, n. var.); FORVÁNEK (Curculionidae: n. spp.); FRIDERICHS (*Stephanoderes hampti*); GARDNER (Cerambycidae, Brenthidae, immature stages); GIBLIN (Tenobriionidae: n. spp.); GESTRO (Hispidae: n. spp.); HELLER (Balaninini, Curculionidae); HETSCHKO AND WASSMANN (Thoritidae); HORN (Cecidellinae: n. spp.); HUSTACHE (Curculionid); JORDAN (Anthrenidae: n. spp.); KLEINE (Lycidae: n. spp. Brenthidae: n. spp. *Macrolycus*); KLEINE AND OTHERS (Melolonthidae: n. spp.); LEONATTON (*Colaspidea atrum*, monographic study); MARSHALL (Curculionidae: n. spp.); MAULIK (*Callispa latipennis*, Nomenclature of *Chrisomela* and *Melasma*); OOMS (Gyrinidae: n. spp.); PERROE (History of some Rynchophorid genera); PLAVILSTNIKOV (Cerambycidae); RAMAKRISHNA AYYAR (Coccinellid, n. sp. Chalcidoiden); REICHENSPERGER (Histeridae); SAMPTSON (Platypodidae, n. spp.); SCHULTZ (Curculionidae); STUART (Coccinellidae: n. spp.); SRAETH (Cassididae); YOSS (Curculionidae, n. spp.).

Diptera.

ALDRICH (Tachinid, n. spp.); BECKER (Asilinae); BLIZZI (Tachinid); BISCROFT (Description and keys); BRUNETTI (Syrphidae; Conopidae; Oestridae); CARTER (Anopheles mosquitoes of Ceylon); CUMSTONERS (Anopheline: Catalogue); DYER, etc. (Mosquitoes); EDWARDS (Mycetophilidae: classification); ERLATON (Trypanidae); ENDERLINE (Tabanidae: classification); EXELL (Rutillidae); EVANS (*Anopheles marshalli* var. *fredericnsis*, n. var.); FERRIS (Diptera—pupipara); GOETTERBUER (Culicidae: Catalogue); GREENE (Muscoide: classification based on puparia; Sarcophagidae: puparia and larvae); KIRKPATRICK (Egyptian mosquitoes, n. sp.); LINDER (Tabanidae); MACFIE (Chironomidae: n. spp.); MALAN AND MALAN (*Atherigona* n. spp.); MALLOCH (*Musca* spp., *Atherigona* spp.); DE MEIJERE (Agromyzidae, larvae); NEWSTEAD (Tsetse flies: guide); PATTON; PETROCH (Now *Anophles*); SCOTT (Nycterbiidae, zoo-geographical and systematic notes); SLAY (Calliphoridae); SLATOR-WHITE (Rhinnus: revision. Mosquitoes: Ceylon. Tabanidae, Sarcophagidae: n. spp.); SIXTON (*Phlebotomus*); STRICKLAND (*Anopheles* larvae); SURCOUF AND GUYON (Oestridae: larvae); TONNOIR (Simuliidae: Australasian).

Embioptera.

NAVAS (Descriptions).

Hymenoptera.

ALFREN (*Xylocopa* spp.); BLÜTHGEN (Nomadidae: n. spp.); COOKERELL (Apidae); DOVER (Braconidae; Apidae; Vespidae: n. spp.); EMERY (Formicinae: Genera Insectorum); FLIMMER (Opuscula braconologia); FRIESE (*Adelura dryinens*, [*C. indica*; n. spp.]) (Parasitic bees, n. spp.); GAUTIER AND RILL (Braconidae); GRANDI (Agaoninae and Sycophaginae; Fig insects); HINOSTON (*Sphex*

Hymenoptera—*contd.*

Ichneumon; KARAWAIEW (Formicidae); KIEFFER (Bethyrid: n. spp. from Embiidæ); MAIDL; MUESERLECK (*Microbracon*: revision); MUKHERJEE AND REDFERN (Formicidae); RAMAKRISHNA AYYAR (Parasitic Hymenoptera; Chalcididae: check-list); SANTSCHI (*Myrmecaria*, Revision); SCHULTHEISS (*Alator*, Vesp.); VERLAINE (*Vespa vulgaris* and *V. germanica*); VIERECK (Ichneumonidae: synonymy).

Isoptera.

SYNDER (Kaloterminæ *approximatus*, desc.).

Lepidoptera.

BAKER (Liphyrinæ: revision; descriptions); BELL (desop., etc.); BEESON (Geometridæ: n. spp.); CONTI (*Agrotis*); EVANS, W. H. (Indian Butterflies: identification); FLETCHER (Lacampidae, Syntomidae, Zygaenidae: catalogues); FORNER (Keys, etc.); HAMMON (Noctuidæ, Hypocnidae: n. g., n. spp.); DE JOLANIS (*Agrotis*: *Panara* spp. synonymy); JORDAN (*Delias*: n. subspp.); ROTHSCHILD (*Delias*, new forms); MEYER (Exotic Microlepidoptera: n. spp.); PROUT (Geometridæ: n. spp.); RILEY (Lycaenidae); RILEY AND GARRICK (Rhopalocera: catalogue of type specimens in B. M.); VENTY (*Zygæna*: evolution, etc.); WATKINS (Caterpillars, n. spp.; *Teras blanda*).^N

Mallophaga.

EWING (Gyropidae: Taxonomy, Biology and Distribution);

Neuroptera.

WITTYCOMBE (Coniopterygidae, n. spp.).

Orthoptera.

CHOPARD (Gryllidae: Ceylon, n. spp.); KARNY (Gryllacridæ); UYAROV (Acrididae: Orthop.); WILLEMSI (Acridiodes, Gryllacanthacrinæ: Revision).

Odonata.

THAYER (n. spp., etc.); LAIDLAW (n. g. and n. spp.); LILLINK (*Zygoptera*, Keys, Bibliography).

Psocina.

ENDERLLY (n. g. and n. spp.).

Rhynchota.

BAKER (Jassoidæ; Fulgoridae); BERGLOTH (Corridæ: n. g.); CHAMBERLIN (Lacciferidae: n. spp., etc.); CHINA (Homiptera: Yunnan, n. spp., etc.); ESARI (Hydrometridæ); FERRIS AND MYLES (Daspidae: generic types); HALL (Egyptian Coccidæ, new spp.); HOKL (Coccidae: n. spp. with legs); HORVATH (Bat bug: n. spp.); MONTUSOV (Orthozina: keys and desc.); TAKAHASHI (Aphididae of Formosa: parasites, etc.); TIMMERLAKE (Hawaiian Aphididae: list of food plants); DE LA TONNE BUENO (Aquatic Hemiptera of Ceylon); WÜNN (Coccidae: list with food plants).

Strepsiptera.

SCHKAFF (*Stylops*, n. spp.).

Thysanoptera.

KARNY (n. spp.); PRIESNER (European, Catalogue); RAMAKRISHNA AYYAR (n. spp., etc.).

III. APPLIED.

General.

ANONYMOUS (Common names of insects); BALLARD (Report cotton pests); BALLOU (Relationship between crops and pests); BIRKILL (Insect vision and flower fertilization); CRIDDLE (Grasshopper outbreak); DOANE (Scientific name of Economic insects); FLETCHER (Importance of Ent. to India. Report. Migration and pest outbreak); FRIEDBORN (Flies and milk production); HOSE (Biological control of insects); HILSON (Research in cotton entomology); HOARE (Power spraying outfit); HOWARD; HUSAIN (Report); JACOBSON (Plant quarantine and pest control); KUNHI KANNAN (Report); MACKIE (Insect Menace); METCALF (Control measures); MORSTATT (List of common names used in App. Ent.); RAMACHANDRA RAO (Pepper pest); REIL, etc. (Handbook of plant diseases, animal pests of economic plants); SEN; SMYTH (Plants as traps). [Reports and reviews.]

Agricultural.

ANDREWS, E. A. (Thrips on tea); ANONYMOUS (*Syngus rugifrons*, a new cotton pest); AUSTIN (Beetles on cucurbits); BALLARD (Cotton); BALLOU (Cotton); BARBER (Winter mortality and corn borer); CHEALES (Sudan bollworm); COLEMAN (Coffee-borer); FRIEDERICH (Stephanodorea); GEORGE (Root Aphids); GRAY (Sweet potato weevil); HAINES (Cotton insects); HILSON (Cotton insect research); HUTSON (Paddy caterpillar and Tea tortrix); JARVIS (Cane insects); JETSON (Tomato shot-hole borer); KUNHI KANNAN (Coffee-borer. Jolo Ear-head fly); LÉCAILLON (Lucerne beetles); NATH (Sugarcane borer); PARNELL (Jassid resistant cotton); PIERCE (Cotton insects); POUTIER (Argentine ant); ROCKWOOD (*Agrotis* outbreak); SHAN (*Anisea*); SMITH (Maggots on roots of vegetables); TEMPLETON (Ratoon cotton and insects); THOMSON (SYMPTOM as pest); UVAHOV (Rice grasshopper); VAYSSILAR AND MINEUR (Cotton insects, Africa); WAGEL (Land crabs); WILKINSON (Cotton bollworm); WILLIAM AND BISHARA (Pink bollworm); WORRAL (Jassid resistant cotton).

Sugarcane mosaic.

ANONYMOUS; ELMER; FAWCETT; HANSFORD; KOPP; STOREY.

Horticultural.

ALI (Citrus psylla); ANONYMOUS (Coffee borer. *Stephanodorea*); DANI (Pomegranate caterpillar); DUTT (Giant mealy bug); GURNEY (Control of slaters. Fruit fly control. Grasshopper control); HUSAIN (Mango hopper); HUTSON (Coconut leaf caterpillar); ISAAC (Coconut slug caterpillar); KUNHI KANNAN (Limo tree borer, Coffee borer, Cardamom pest); MALLEY (Fruit nibbler control); MCCARTHY (Fruit fly poison); PAILEOT (Ponch pest); SURENDRAS RAO (Rhinoceros beetle); WEBSTER (Pear psylla).

Forest (trees).

BELSON (*Dihammus cerinus* on teak. Decid. defoliator); BELSON AND CHATTERJEE (Sal heart wood borer); CHOUNHURY (*Calappa layana* on *Gmelina arborea*); DUTT (Giant mealy bug); FULLER (Termites and timber); MARSHALL (Chironomid on cultivated trees); RAMAKRISHNA A1 VAR (Neem mealy scale); WALCOTT (Termites).

Stored grains.

FULLER (Oviposition of grain weevil); MACKIE, W. W., MASON (Khapra beetle in malting); MITRA (Paradiachlorobenzene); TAYLOR (Khapra beetle in malting)

Household.

BISHOP (Fly traps); BUNKER (Mosquito repellents); BUXTON AND HOPKINS (Attraction of *Stegomyia* to hay infusions); CAMERON, J. (Cockroach eradication); COLLET (House fly); GODWIN (Cockroach); HARNED AND ALLEN (Bed bug control); NEWSTEAD (Bed bug control); RICE (Cockroach eradication).

[See also under Medical and Control measures.]

Medical.

Mosquitoes : Malaria :

ANONYMOUS (Anti-malaria advisory Comm. report); BARNES (Oil films and mosquito larvae); BRUMPT (Resistance of eggs of *A. maculipennis*); BUNKER AND HINSONFELDER (Mosquito repellants); BUXTON AND HOPKINS (Attraction of *Stegomyia* to hoy infusions); CHARMER (Oils, etc., and mosquito larvae); CHRISTOPHERS, GILL (*A. rossii* and malaria); KERANDTL (Insect predators of mosquito larvae); MARSHALL, J. F. (Mosquito control); PARAFENTJEFF (Mosquito eradication); SEVIER-WHITE (Eradication of malaria, Ceylon mosquitoes); STRICKLAND (Mosquito and malaria). [See also under Control measures, Bionomics, etc.]

Sand flies ; Kala-azar :

CHRISTOPHERS (Kala-azar commission); CHRISTOPHERS, SHORTT AND BARBAUD (Development of parasite, Feeding of Sand flies, Culicoides); CUNNINGHAM AND PUNDIT; LLOYD AND OTHERS (Identification of blood meal of *Ph. argentipes*); MELENEY; MICHAEL; NAFIER; NICOLLE (Experiments in transmission and immunity); SHORTT AND SWAMINATH (*Cimex hemiptera* not carrier of Kala azar); SEXTON (*Phlebotomus*);

Transmission of dangue.

CHANDLER; MEOAW.

Miscellaneous.

ALDER AND THEODOR (Cutaneous Leishmaniasis and *Ph. papatasi*); ANDREWS, H. W. (Flies and disease); EWTAC (Sulphur impregnated clothes against ohiggers); FRISON (Myiasis and common housefly); HFRITS (Myiasis by *Hypoderma bovis*); LAFIE (Poisonous caterpillars); MACKIE (Blood sucking midge); MEOAW (Indian tick typhus); MILLS (Insect bite); NOGUCHI (Yellow fever); PATTON (Diptera of Med. importance); SATON (Indian rat fleas); SPEAR (Endemic fevers of Ceylon); THOMSON (Barley itch); TRIMBLE (Vacuum cyndio method of delousing), [See also under Mosquitoes, etc., and Household insects.]

Veterinary.

CAMERON (Mango mite); FREEBORN AND OTTER (Milk production and flies, etc.); HORTON (*Centrophilus equi* cause of paralysis of oesophagus); KAHAN SIBOU; (Surra and tick); LAFIE (Surra in camels); LEBAILLY (Flies and foot and mouth disease); LECKIE (Poisonous caterpillars); MORSON (Maggot and Joint-ill in colves); MYLES (Cattle tick); PATTON (Diptera of Veterinary importance).

CONTROL MEASURES.

General.

ALI (Citrus psylla); ANDREWS (Tea thrips); ANDREWS AND TUNSTALL (Spraying tea); ANONYMOUS (Clothes, meth. Termites. Coffee-borer. Stored grains. Use of airplanes); BARBER (Importance of winter mortality); BELSON (Sal heart wood borer); BISHOPP (Fly traps); BUNKER (Mosquito repellants); BUXTON AND HOPKINS (Attraction of mosquitoes); CAMERON (Cockroach); COLEMAN (Coffee borer); COLLET (Flies); CRIDDLE (Grasshopper outbreak); DANI (Pomegranate caterpillars); DREKOWSKI (Hand nets against crickets); DUTT (Bands against mealy bugs); LIVING (Sulphur impregnated clothes); FRERSON (Citrus fumigation); FRIEDERICH (Stephanoderes hampei); FULLER (Termites); GRAF (Sweet potato weevil); GUNTER (Slaters; grasshoppers; fruitflies); HAMILTON AND SMITH (Testing distribution of lead arsenite); HOARE (Power spraying outfit); HUBAIN (Mango hopper); JACOBSON (Plant quarantine, etc.); JARDINE (Tea Tortrix); JARVIS (Cane insects); JERSON (Shot hole borer); KAMISAN (Wood preserving antiseptics); KING AND JOHNSTON (Dust distributor); MCCARTHY (Fruit fly poison); MACKIE (Stored grain pests); MALLY (Jarring to control fruit nibblers); MANUEL (Sporocidia for Berdesaux mixture); MARSHALL (Mosquito control); MELANDER; METCALF; MONSTATT (Bibliography); NATH (Sugarcane

General—*contd.*

borers); **PAULOT** (Mosquitoes); **PARAVENTIER** (Mosquitoes); **PARNELL** (Jassid resistant cotton); **PETCH** (Entomogenous fungi and insect control); **POST** (Aeroplane and boll weevil control); **RAVAKRISHNA AYYAR** (Biological control); **SMITH** (Maggots attacking roots of vegetables); **SMITH** (Why not Trap crops that entrap?); **STRICKLAND** (Prevention of mosquitoes in Aiam); **TIWARI AND LAL** (Neem batties against rat and fleas); **WILKINSON** (Bollworm control); **WILLAUDE** (Vegetable insecticides, etc.); **WOOLUM** (Insects developing immunity to insecticides); **WOLCOTT** (Wood and termites); [also under Agricultural, Horticultural, Medical, Household, etc., etc.]

Heat.

ALBERTS AND FLINT (Effect on vitality of seed corn); **HANNED AND ALLAN** (Bed bug); **SHAW** (Rat fleas on board ships); **THRELTON** (Cotton seed).

Insecticides, etc. (General).

ANONYMOUS (*Pyrithrum cinerifolium*); **CATHCART AND WILKS** (Analysis of insecticidal material, etc.); **CUTLER**, etc. (Tobacco cultivation for nicotine); **ENGLISH** (Use of colloidal clay); **FRYER** (Principles of Government action); **HEADLE AND RUNNERS** (Nicotine dust); **THAISCHER AND STREITER** (Combined lead arsenate and lime sulphur spray); **WOLUM** (Immunity of insecticides).

Contact insecticides.

BARNES (Oil films and mosquitoes); **BURROUGHS** (Lubricating oils); **CHANDLER** (Scales); **CHARRIER** (Oil and Petrol against mosquito larvae); **EVANS** (Oil sprays); **HUNN** (Oil emulsions); **LEACH AND JOHNSON** (Wormseed oil and carbon bisulphide against ground insects); **LEFF** (Egg killing washes); **TATTERSFIELD AND OTHERS** (Contact insecticides); **WHITCOMB** (Lubricating oil emulsion); **YOTILR** (Oil emulsion); **YOTILR AND WINSTON** (Colloidal clay as emulsion).

Stomach insecticides.

CAMERON, J. (Sodium flouride against cockroaches); **GUERRY** (Slaters; grasshoppers, fruit flies); **MARCOWITZ** (Non-arsenicals); **MCCARTHY** (Fruit flies); **RIPLER** (Sodium flouride); **ROCKWOOD** (Ligrois and bran bait).

Fumigants.

BACK AND COTTON (Ethyl acetate and carbon tetrachloride); **COUSTON** (Carbon tetrachloride); **FERGUSON** (Citrus fumigation); **GORE** (Calcium cyanide); **LAL AND TEWARI** (Cresol for house fumigation); **MAICHALAND VALLSIFUR**; **MELANDER** (Sulphur fumigants); **MIGER** (Paradichlorobenzene against stored grain insects); **NEWSTRAD AND OTHERS** (Hydrogen cyanide against bed bug); **PARKER** (Tetrachlorethane against white fly); **REYNOLDS** (Formalin vapour); **RICE** (Cyanogen chloride mixture for cockroaches); **TIWARI AND LAL** (Neem batties against rats and rat fleas); **TRIMBLE** (Vacuum cyanide method for delousing clothes); **WERNER** (Hydrogen cyanide); **YOTILR** (Calcium cyanide dust).

Rat control.

PENDERTON, TIWARI AND LAL (Neem batties).

PARASITES AND PREDATORS OF INSECTS.**Fungi.**

DIEZELDE (*Beauveria effusa* on *Doryphora*); **DUSTAN** (Culture methods); **KIRKPATRICK** (*Rhizopus nigricans* and insect pest of cotton); **PETCH** (Entomogenous fungi and insect control); **SKAIF** (Fungus disease of locust); **VOUKASOVITCH** (*Spicaria farinosa* var.); **YASUKAWA** (Green Muscardin fungous and sugarcane insects).

Animals other than insects.

ALDRIDGE AND THORODOR (A sporozoon of *Ph. papatasi*); CLEVELAND (Termites and intestinal flagellates and other subjects); HOLMES (Herpetomonas in insects and plants); JEFFREY (Protozoa of *Stomoxys*); MEVZEL (Mermithiden parasite of *Helopeltis*); ROSS AND HUSAIN (Herpetomonas in *Musca domestica*); STEINER (Mermithiden parasite of *Helopeltis*); WEHRLE AND WELCH (Mites in tracheal system of Orthop.).

Insects.

AARON; ALDRICH (Tachinid); ANONYMOUS (n. spp. parasitic insects in 1925); BALACHOWSKY (Predators of coccid *Parlatoria blanchardi*); BEZZI (Tachinid); CROSSMAN (Lig parasites of Gipsy moth); FERRIERE AND FAURE (Chalcid parasites of *Apanteles glomeratus*); FRIEDERICH (Parasites of *Stephanoderes hampei*); GARNITSEV (*Helopeltis*); GENTY (HABROBRACON *brevicornis*); HASE (Biological control of insects; *Trichogramma evanescens*); INNS (Predaceous larvæ of *Mucidus scutophagoides*); KERANDT (Predators of mosquito larvæ); KIEFFER (Bethylid parasite of Embiidæ); MENZEL (Parasites of *Helopeltis*); NATVIG (Facultative parasitism of *Eristalis* larva); RAMAKRISHNA AVIAR (Parasitic Hymenoptera, etc.); SEGUY (Murids with parasite larvæ); SINTON AND LITTLE (Culicoides on anophelines); SUBRAMANYAM (*Synia* on *Copiosoma*); TAKAHASHI (Parasites of Aphids); TIMBERLAKE (Chalcids in Hawaii, introduced and immigrants); VOELKEL (Practical importance of *Trichogramma evanescens*); VOUKASSOVITCH (Predators of aphids and their parasites and hyperparasites).

USEFUL INSECTS.

Apiculture.

GOODACRE (Travelling cage for queen); GRAHAM SMITH (Nomenclature of Queen Bees); SANCTURAY (Acarine disease); TOKUDA AND SUMITA (Poisonous honey).

Lac-culture.

HAUTEFVILLE, MANDIHASSAN, NICHOLSON, PATWARDHAN, SRINIVASAYYA.

Sericulture.

FUSCHINI (Control of "Flaccidezze"); HOWARD AND BUSWELL, REBOUILLON (Grassctio).

MISCELLANEOUS.

Insect weed killers.

ALEXANDER (Enemies of Prickly Pear and their introduction in Australia).

Pest Act notifications.

ANONYMOUS.

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